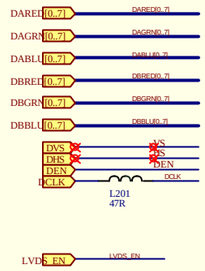

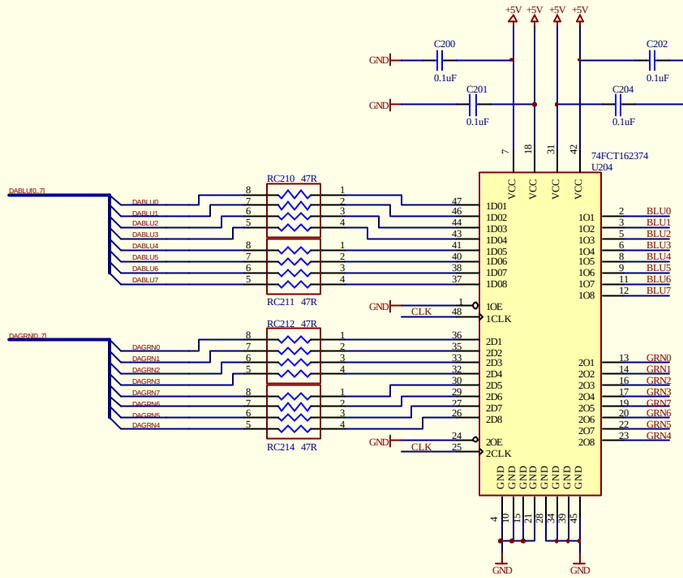

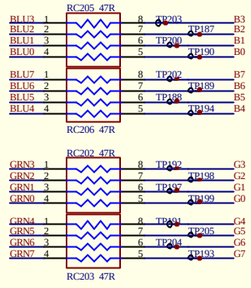

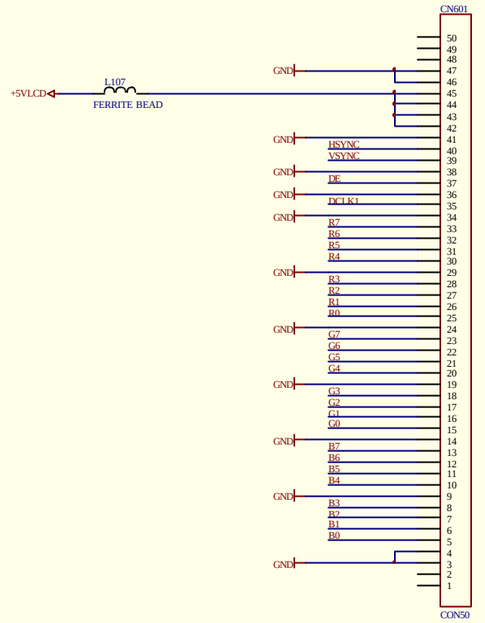

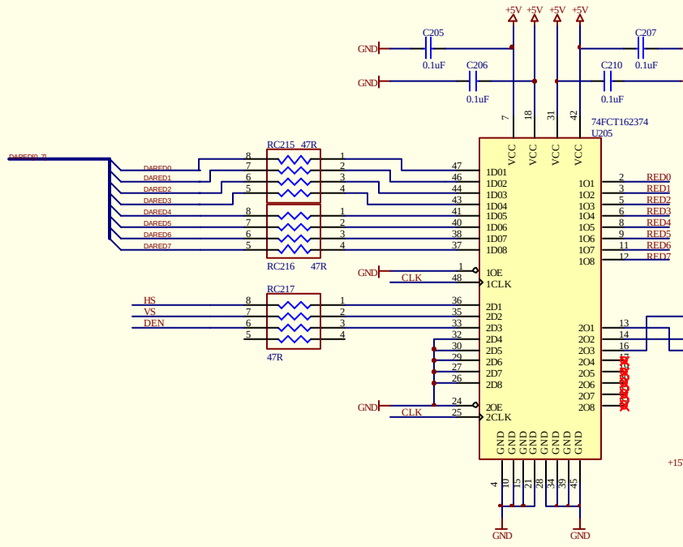

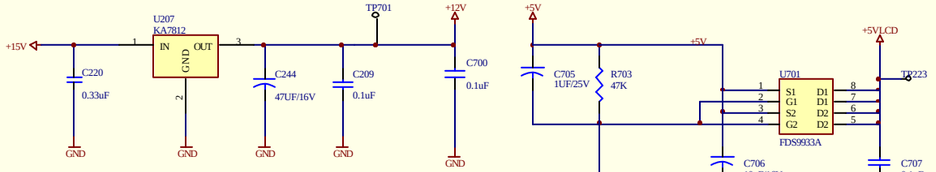

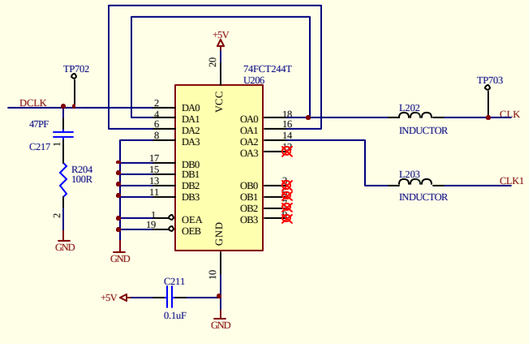

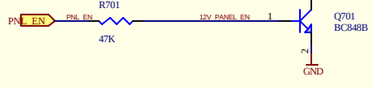

Proje= 20" LCD TV (CHIMEI)
Kod= ZH1.190-02
Schematic= DISPLAY

Beko Elektronik A.S.		
Size C	Title 5. Display	Rev A
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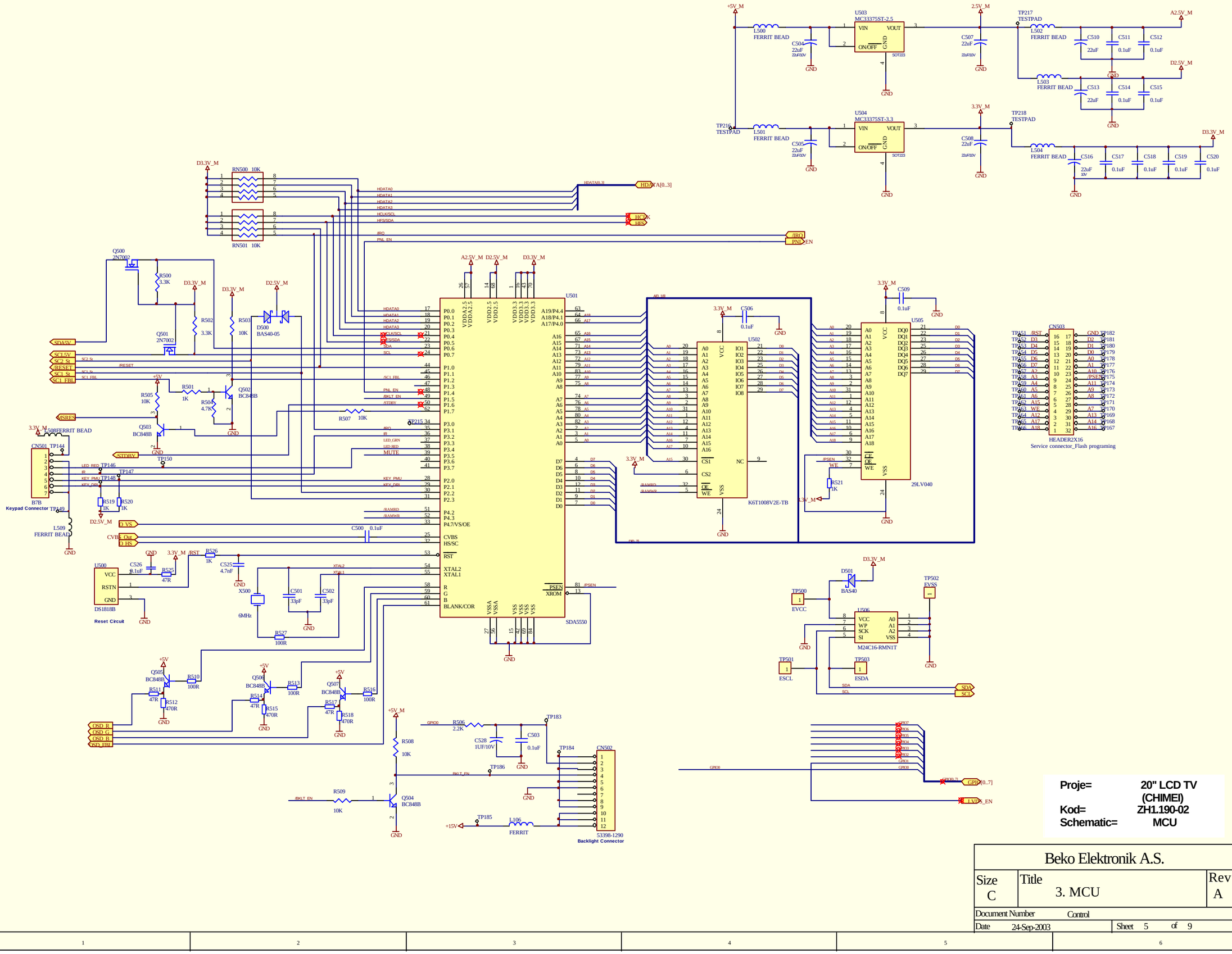
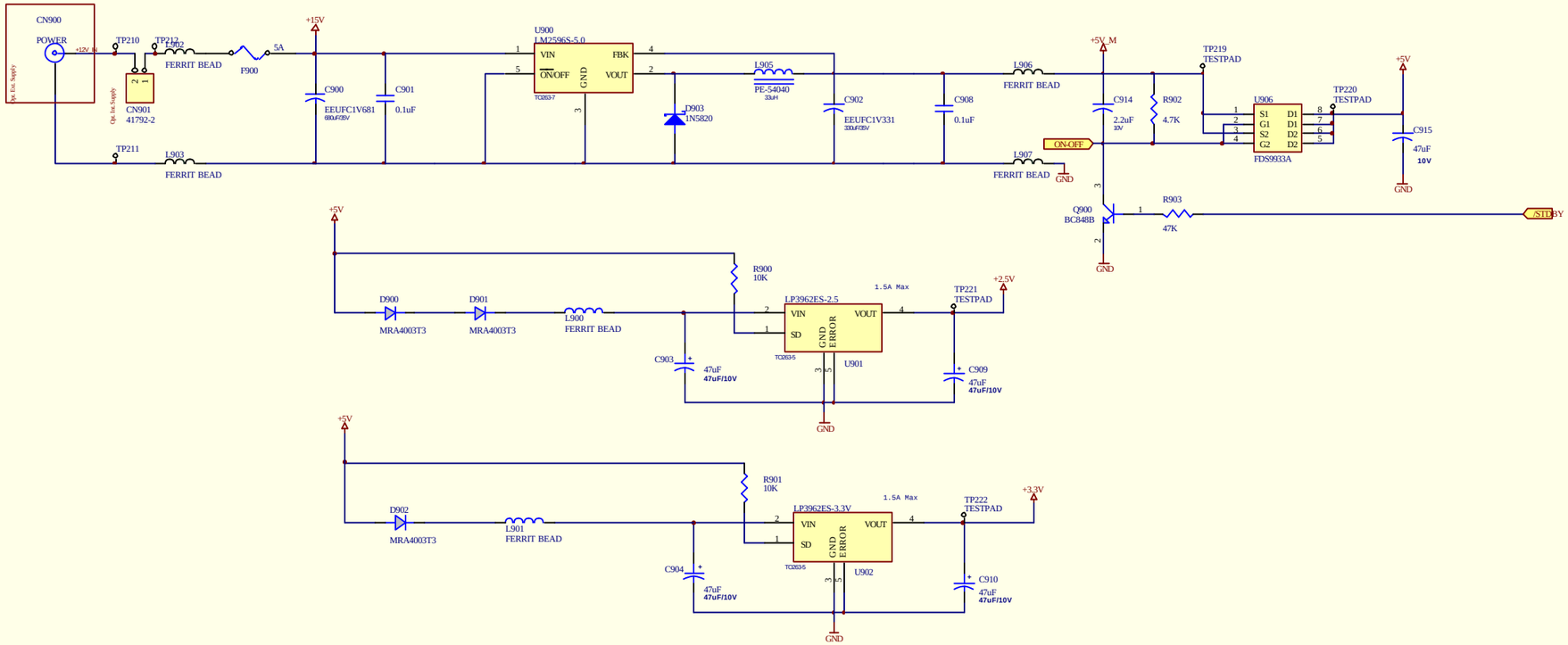
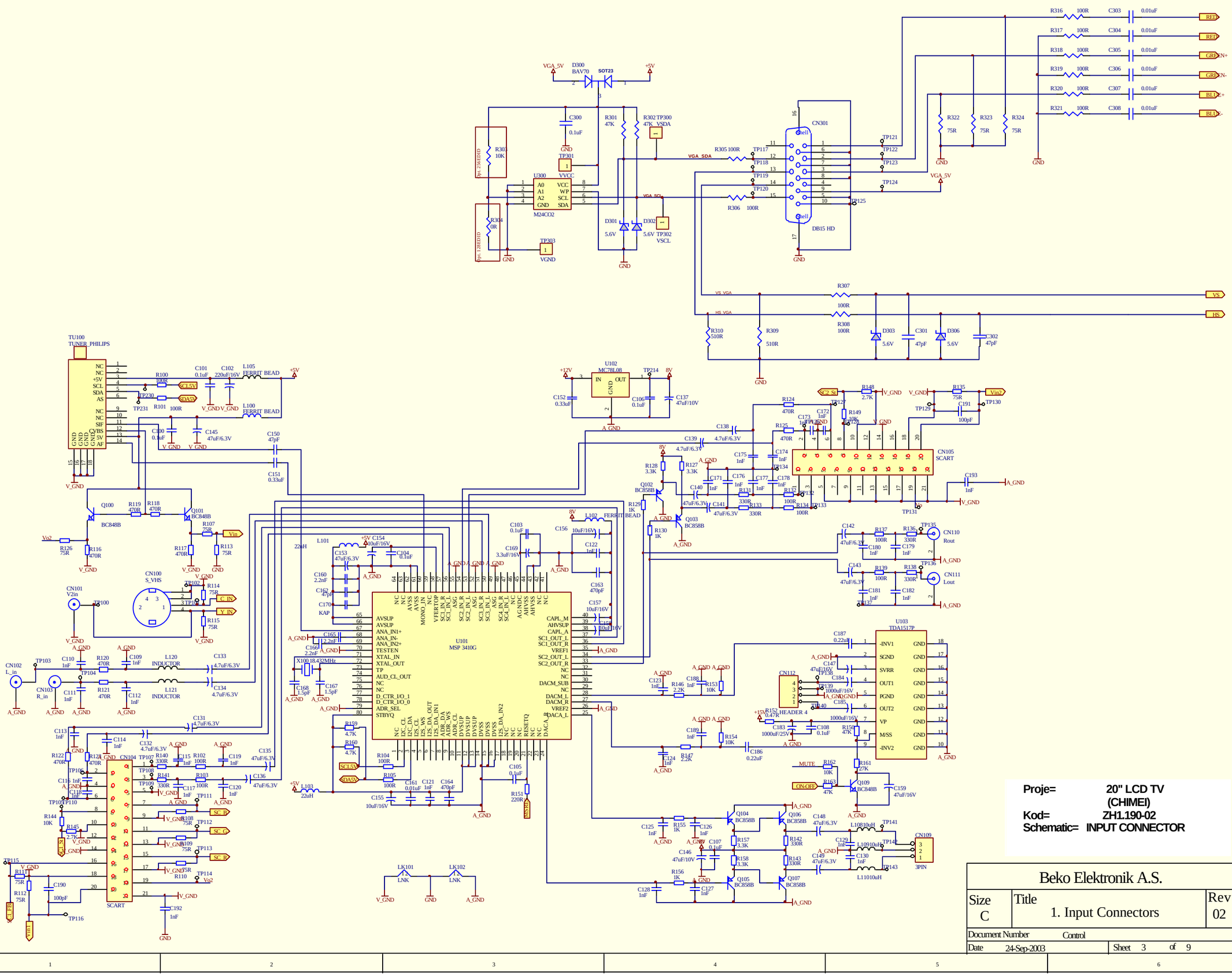
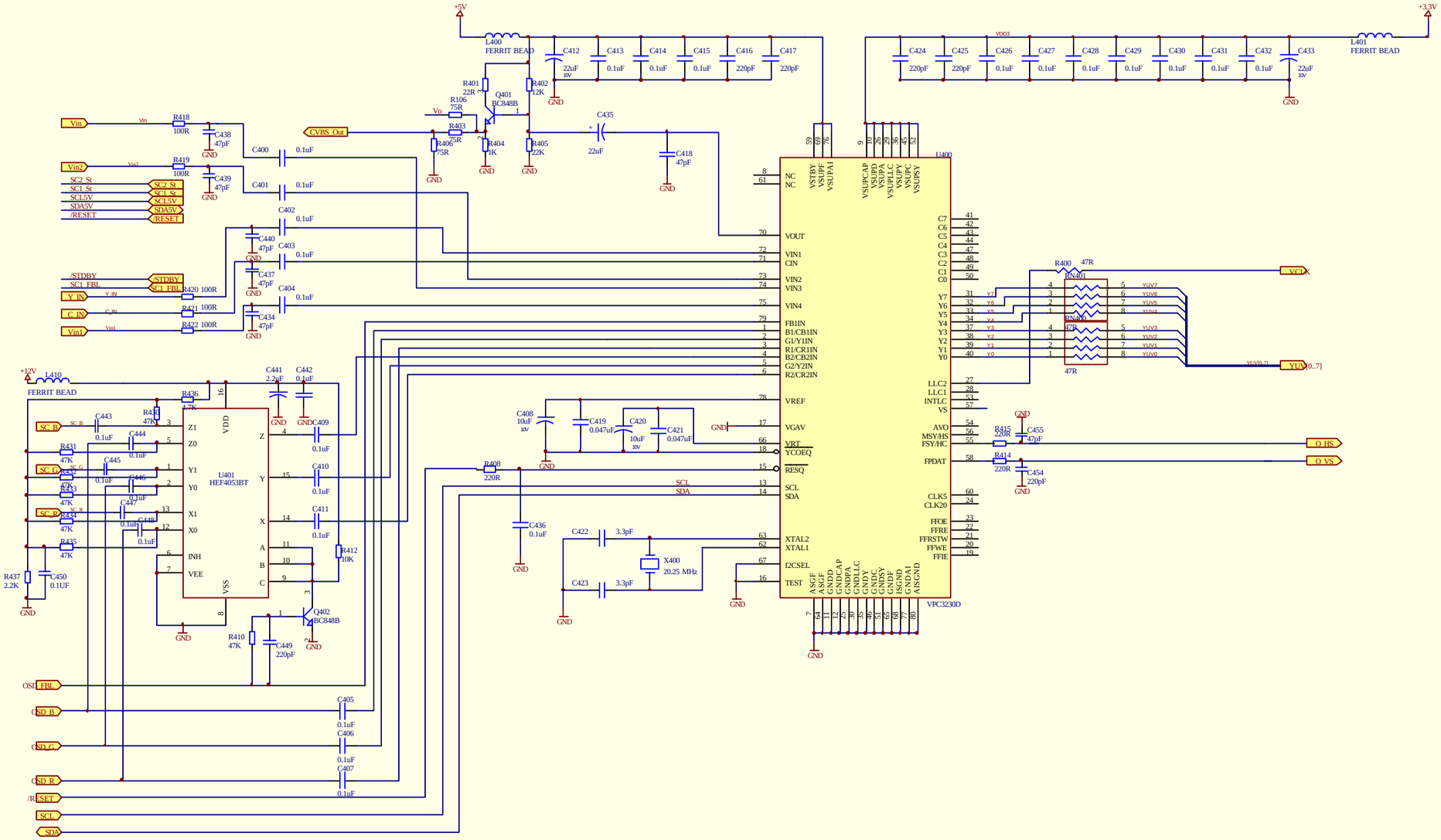

+5V_M
U503
MC33375ST-2.5
VIN
VOUT
ON/OFF
GND
SOT223
L500
FERRIT BEAD
C504
22uF
2.5V_M
C507
22uF
TP217
TESTPAD
L502
FERRIT BEAD
C510
C511
C512
0.1uF
A2.5V_M
L503
FERRIT BEAD
C513
C514
C515
D2.5V_M
TP216
TESTPAD
L501
FERRIT BEAD
U504
MC33375ST-3.3
C505
22uF
3.3V_M
C508
22uF
TP218
TESTPAD
L504
FERRIT BEAD
C516
C517
C518
C519
C520
0.1uF
D3.3V_M
D3.3V_M
RN500 10K
RN501 10K
HDATA0
HDATA1
HDATA2
HDATA3
HCLK/SCL
HFS/SDA
HDATA0..3
HDATA[0..3]
HCLK
HFS
/IRQ
PNL_EN
Q500
2N7002
R500
3.3K
Q501
2N7002
R502
3.3K
R503
10K
D500
BAS40-05
SDA5V
SCL5V
/RESET
SCL_FBL
+5V
R505
10K
R501
1K
Q502
BC848B
R504
4.7K
MSRES
R507
10K
3.3V_M
L508FERRIT BEAD
Q503
BC848B
CN501
TP144
B7B
Keypad Connector
TP149
STDBY
TP150
LED_RED
TP146
IR
KEY_PMU
TP148
KEY_DBL
TP147
R519
1K
R520
1K
L509
FERRIT BEAD
D2.5V_M
CVBS_Out
H_HS
U501
P0.0
P0.1
P0.2
P0.3
P0.4
P0.5
P0.6
P0.7
P1.0
P1.1
P1.2
P1.3
P1.4
P1.5
P1.6
P1.7
P3.0
P3.1
P3.2
P3.3
P3.4
P3.5
P3.6
P3.7
P2.0
P2.1
P2.2
P2.3
P4.2
P4.3
P4.7/VS/OE
CVBS
HS/SC
RST
XTAL2
XTAL1
R
G
B
BLANK/COR
A19/P4.4
A18/P4.1
A17/P4.0
A16
A15
A14
A13
A12
A11
A10
A9
A8
A7
A6
A5
A4
A3
A2
A1
A0
D7
D6
D5
D4
D3
D2
D1
D0
/SCL_FBL
PNL_EN
/BKLT_EN
/STDBY
IR
LED_GRN
LED_RED
MUTE
KEY_PMU
KEY_DBL
/RAMRD
/RAMWR
PSEN
XROM
VSSA
VSS
VDDA2.5
VDD2.5
VDD3.3
VDD3.5
A2.5V_M
D2.5V_M
D3.3V_M
TP215
C500
0.1uF
X500
6MHz
C501
33pF
C502
33pF
R527
100R
U500
DS1818B
Reset Circuit
VCC
RSTN
GND
C526
0.1uF
R525
47R
R526
1K
C525
4.7nF
/RST
3.3V_M
SDA5550
Q505
BC848B
R510
100R
R511
47R
R512
470R
Q506
BC848B
R513
100R
R514
47R
R515
470R
Q507
BC848B
R516
100R
R517
47R
R518
470R
OSD_R
OSD_G
OSD_B
OSD_FBL
+5V_M
R508
10K
R509
10K
Q504
BC848B
GPIO0
R506
2.2K
C528
1UF/10V
C503
0.1uF
TP183
TP184
TP186
BKLT_EN
TP185
+15V
L106
FERRIT
CN502
53398-1290
Backlight Connector
U502
K6T1008V2E-TB
A0_18
C506
0.1uF
/RAMRD
/RAMWR
U505
29LV040
C509
0.1uF
/PSEN
R521
1K
CN503
HEADER2X16
Service connector_Flash programing
TP151 /RST
TP152 D3
TP153 D4
TP154 D5
TP155 D6
TP156 D7
TP157 A2
TP158 A3
TP159 A4
TP160 A5
TP161 A6
TP162 A15
TP163 WE
TP164 A12
TP165 A17
TP166 A18
GND TP182
D2 TP181
D1 TP180
D0 TP179
A0 TP178
A1 TP177
A10 TP176
/PSEN TP175
A11 TP174
A9 TP173
A8 TP172
A13 TP171
A7 TP170
A14 TP169
A16 TP168
A16 TP167
D3.3V_M
D501
BAS40
TP500
EVCC
TP502
EVSS
U506
M24C16-RMN1T
TP501
ESCL
TP503
ESDA
SDA
SCL
GPIO0
GPIO1
GPIO2
GPIO3
GPIO4
GPIO5
GPIO6
GPIO7
GPIO[0..7]
LVDS_EN
Proje= 20" LCD TV (CHIMEI)
Kod= ZH1.190-02
Schematic= MCU
Beko Elektronik A.S.
Size C
Title 3. MCU
Rev A
Document Number Control
Date 24-Sep-2003
Sheet 5 of 9



Proje= 20" LCD TV (CHIMEI)
Kod= ZH1.190-02
Schematic= POWER

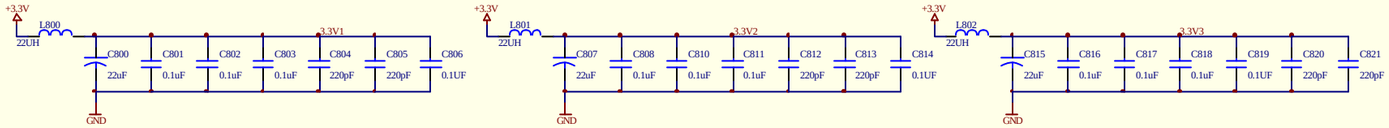
Beko Elektronik A.S.		
Size C	Title 7. Power	Rev A
Document Number Control		
Date 24-Sep-2003	Sheet 9 of 9	

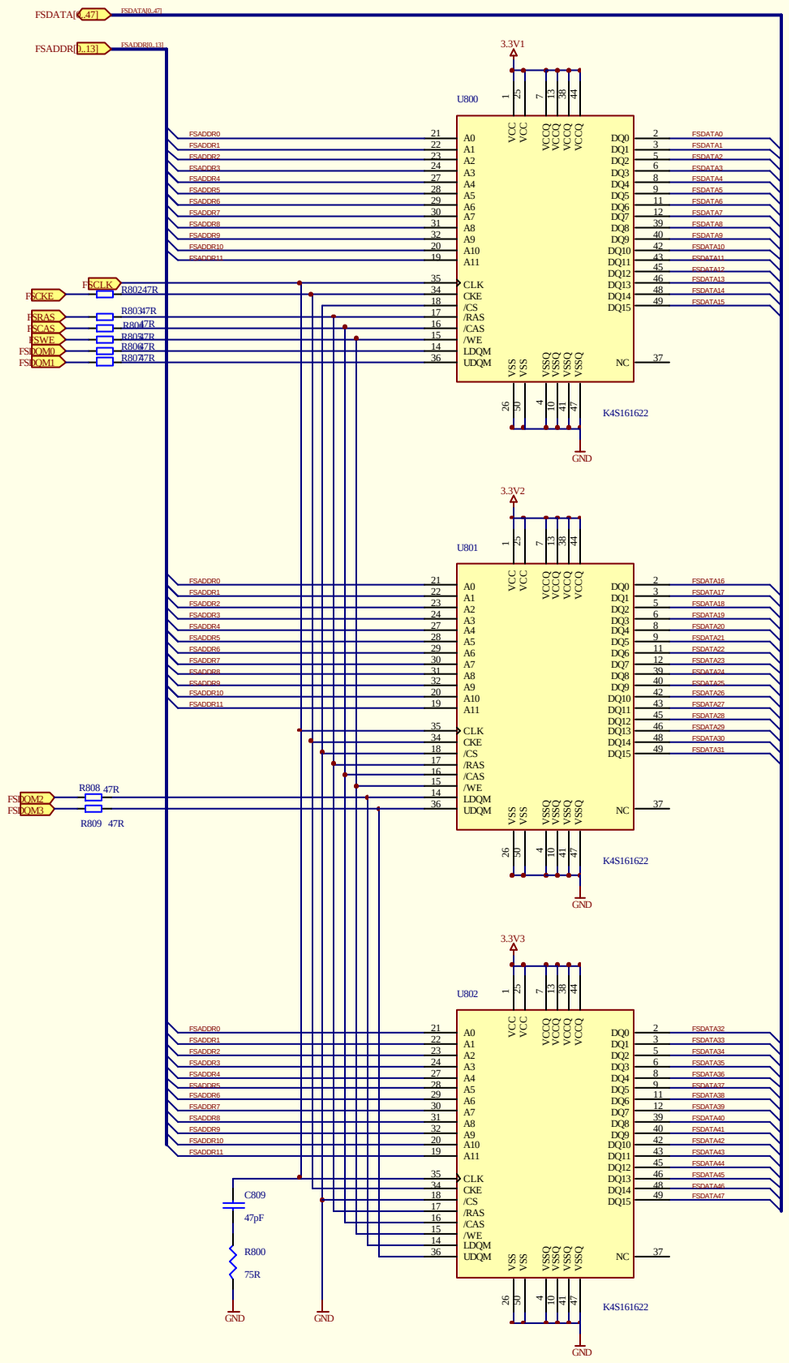

VGA_5V
D300 BAV70 SOT23
+5V
C300 0.1uF
R301 47K
R302 47K VSDA
TP300
R303 10K
opt. 256DDID
TP301
U300 M24CO2
A0 A1 A2 GND VCC WP SCL SDA
VVCC
VGA_SCL
VGA_SDA
R304 0R
opt. 128DDID
TP303 VGND
D301 5.6V
D302 5.6V
TP302 VSCL
R305 100R
R306 100R
CN301 DB15 HD
TP117 TP118 TP119 TP120 TP121 TP122 TP123 TP124 TP125
R322 75R
R323 75R
R324 75R
R316 100R C303 0.01uF RED
R317 100R C304 0.01uF RED
R318 100R C305 0.01uF GRN
R319 100R C306 0.01uF GRN
R320 100R C307 0.01uF BLU
R321 100R C308 0.01uF BLU
R307 100R
R308 100R
R309 510R
R310 510R
D303 5.6V
D306 5.6V
C301 47pF
C302 47pF
VS_VGA
HS_VGA
VS
HS
TU100 TUNER_PHILIPS
R100 100R
C101 0.1uF
C102 220uF/16V
L105 FERRIT BEAD
L100 FERRIT BEAD
C100 0.1uF
C145 47uF/6.3V
C150 47pF
C151 0.33uF
TP230
TP231
R101 100R
SCL5V
SDA5V
U102 MC78L08
C152 0.33uF
C106 0.1uF
C137 47uF/10V
TP214
A_GND
C138
C139 4.7uF/6.3V
R124 470R
C175 1nF
C174 1nF
TP134
R128 3.3K
R127 3.3K
Q102 BC858B
R129 1K
R130 1K
Q103 BC858B
C171 1nF
C176 1nF
C177 1nF
C178 1nF
C140 1nF
C141 47uF/6.3V
R131 330R
R132 100R
R133 330R
R134 100R
TP133
TP131
CN105 SCART
SC2_SL
R148 2.7K
TP127
R149 10K
C173 1nF
TP126
TP129
R135 75R
C191 100pF
TP130
Vin2
C193 1nF
CN110 Rout
CN111 Lout
TP135
TP136
R136 330R
R137 100R
R138 330R
R139 100R
C142 47uF/6.3V
C143 47uF/6.3V
C180 1nF
C179 1nF
C181 1nF
C182 1nF
C103 0.1uF
C169 3.3uF/16V
C156 10uF/16V
L102 FERRIT BEAD
C122 1nF
C163 470pF
C157 10uF/16V
C158 10uF/16V
L101 22uH
C153 47uF/6.3V
C104 0.1uF
C154 10uF/16V
C160 2.2nF
C162 47pF
C170 KAP
C165 2.2nF
C166 2.2nF
X100 18.432MHz
C168 1.5pF
C167 1.5pF
U101 MSP 3410G
R159 4.7K
R160 4.7K
R104 100R
R105 100R
C161 0.01uF
C121 1nF
C164 470pF
C155 10uF/16V
L103 22uH
C105 0.1uF
R151 220R
DSTB
SCL5V
SDA5V
LK101 LNK
LK102 LNK
TU100 TUNER_PHILIPS
NC NC +5V SCL SDA AS NC NC SIF CVBS 5V AF GND GND GND GND
C100 0.1uF
C101 0.1uF
C102 220uF/16V
L105 FERRIT BEAD
L100 FERRIT BEAD
C145 47uF/6.3V
C150 47pF
C151 0.33uF
R100 100R
R101 100R
TP230
TP231
Q100 BC848B
Q101 BC848B
R119 470R
R118 470R
R107 75R
R117 470R
R113 75R
R126 75R
R116 470R
Vo2
Vin
CN100 S_VHS
CN101 V2in
TP102
TP100
R114 75R
R115 75R
C_IN
Y_IN
CN102 L_in
CN103 R_in
TP103
TP104
C110 1nF
C111 1nF
R120 470R
R121 470R
C109 1nF
C112 1nF
L120 INDUCTOR
L121 INDUCTOR
C133 4.7uF/6.3V
C134 4.7uF/6.3V
C131 4.7uF/6.3V
C113 1nF
C114 1nF
C132 4.7uF/6.3V
C135 47uF/6.3V
C136 47uF/6.3V
C115 1nF
C116 1nF
C117 1nF
C119 1nF
C120 1nF
C111 1nF
R122 470R
R123 470R
R102 100R
R103 100R
R140 330R
R141 330R
TP107
TP108
TP109
TP110
TP111
SC_B
SC_G
SC_R
TP112
TP113
TP114
R144 10K
R145 2.7K
R111 75R
R112 75R
R108 75R
R109 75R
R110 75R
C190 100pF
C192 1nF
TP115
TP116
CN104 SCART
C_IN
V_IN
Vo1
U103 TDA1517P
-INV1 SGND SVRR OUT1 PGND OUT2 VP M/SS -INV2 GND GND GND GND GND GND GND GND GND GND
C187 0.22uF
C147 47uF/16V
C184 1000uF/16V
C185 1000uF/16V
C188 1nF
C189 1nF
C123 1nF
C124 1nF
C186 0.22uF
R146 2.2K
R147 2.2K
R153 10K
R154 10K
R152 0.47R
C183 1000uF/25V
C108 0.1uF
R150 47K
R139 1000uF/16V
TP138
TP140
CN112 HEADER 4
MUTE
ON-OFF
R162 10K
R163 47K
R161 47K
Q109 BC848B
C159 47uF/16V
Q104 BC858B
Q106 BC858B
Q105 BC858B
Q107 BC858B
R155 1K
R157 3.3K
R158 3.3K
R156 1K
R142 330R
R143 330R
C125 1nF
C126 1nF
C146 47uF/10V
C107 0.1uF
C127 1nF
C128 1nF
C148 47uF/6.3V
C149 47uF/6.3V
C129 1nF
C130 1nF
L110 10uH
L111 10uH
L110 10uH
TP141
TP142
TP143
CN109 3PIN
Proje= 20" LCD TV (CHIMEI)
Kod= ZH1.190-02
Schematic= INPUT CONNECTOR
Beko Elektronik A.S.
Size C
Title 1. Input Connectors
Rev 02
Document Number Control
Date 24-Sep-2003
Sheet 3 of 9

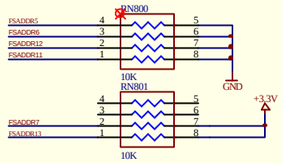


Proje= 20" LCD TV (CHIMEI)
Kod= ZH1.190-02
schematic= VIDEO DECODER

Beko Elektronik A.S.		
Size C	Title 2. Video Decoder	Rev A
Document Number Control		
Date 24-Sep-2003	Sheet 4 of 9	

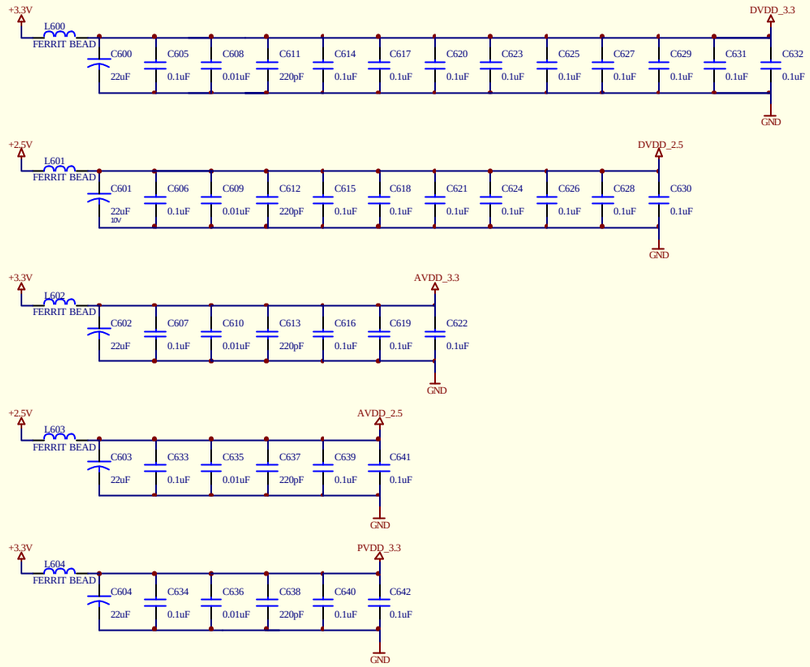


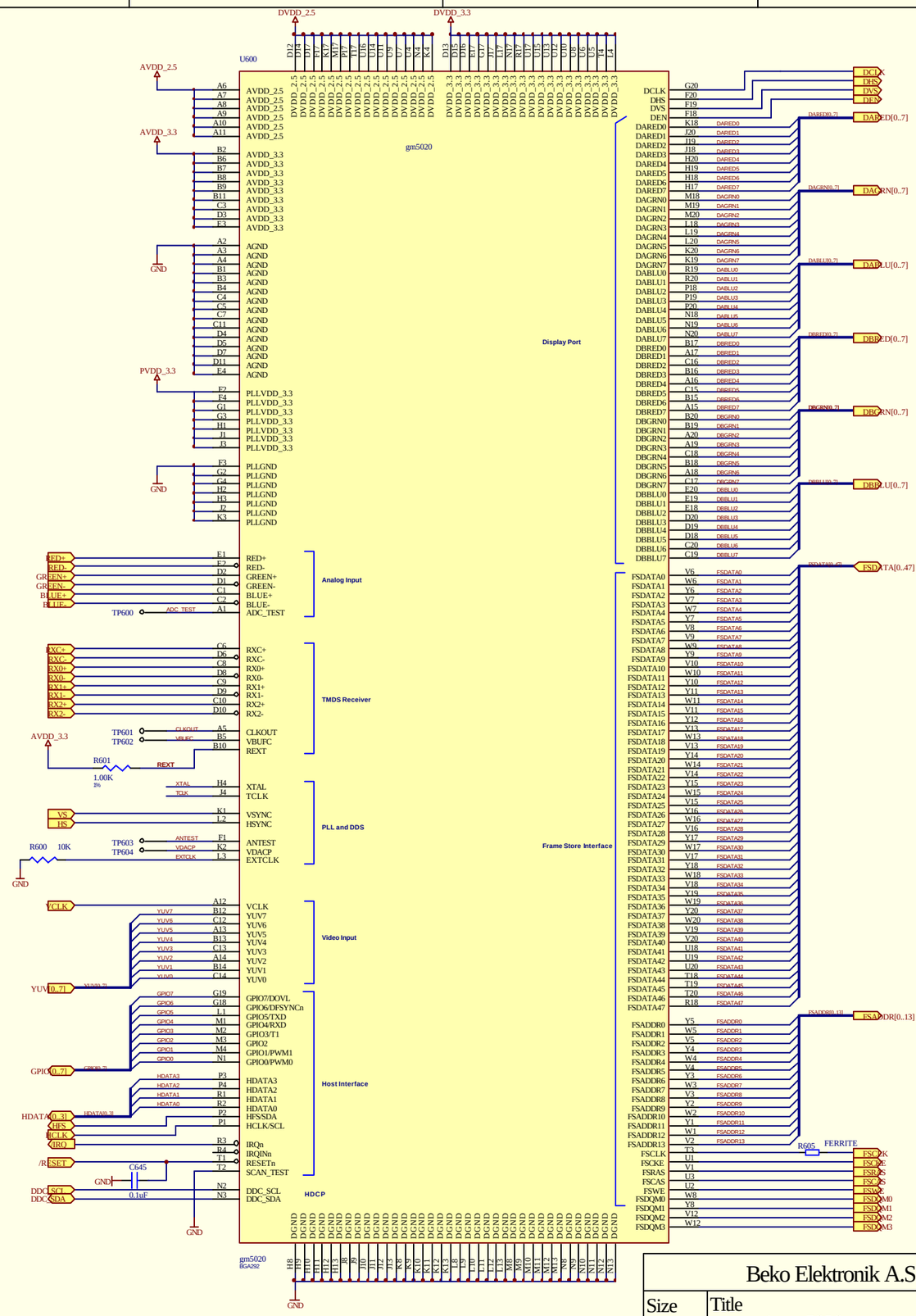


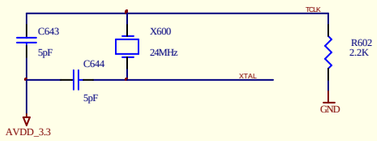


Proje= 20" LCD TV (CHIMEI)
Kod= ZH1.190-02
Schematic= FRAME STORE

Beko Elektronik A.S.		
Size C	Title 6. Frame Store	Rev A
Document Number Control		
Date 24-Sep-2003	Sheet 8 of 9	







Proje=	20" LCD TV (CHIMEI)
Kod=	ZH1.190-02
Schematic=	GM5020

Beko Elektronik A.S.

Size	Title	Rev
C	4. gm5020	A

Document Number Control

Date 24-Sep-2003 Sheet 6 of 9